Federal Transit Administration

Transit Service & Fare Equity Analysis

Under Title VI of the Civil Rights Act

Training Overview for FTA Regions

OF TRANSPORTED OF TRA

Amber Ontiveros



Logistics

- Introductions
- Please silence your cell phones
- Handout: FTA Circular 4202.1A,
 "Title VI Guidelines for FTA Recipients"

http://www.fta.dot.gov/documents/Title_VI_Circular_4702.1A.pdf





Title VI Overview





Title VI

• "No person in the United States shall, on the ground of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under

any program or activity receiving Federal 4

Financial assistance."







Title VI Applies to "Persons"

- •Title VI Protections are *not* limited to citizens.
- Individuals may file a complaint if they are an intended beneficiary of, an applicant for, or a participant in a Federally assisted program.







Race, Color, & National Origin are three 'protected classes'

Race

- U.S. Census categories define race
- Persons of any race are protected classes

Color

Discrimination based on skin color or complexion is prohibited

National Origin

Foreign born ancestry





Program or Activity

Applies institution-wide

- Title VI applies institution-wide, not solely limited to primary recipients operations
- Examples?







Title VI applies to both Recipeints & Sub-recipeints

Recipient:

- State DOT
- Transit Agency
- Or any public or private agency, institution, department or other organizational unit receiving funding from FTA

Sub-recipient:

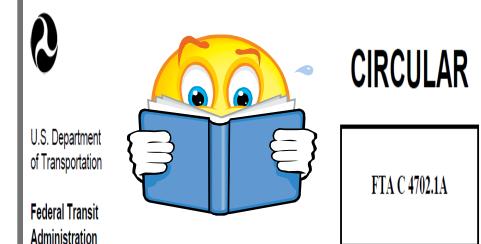
 any entity that receives FTA financial assistance as a pass-through from another entity





FTA Direct Grant Recipients meet their Title VI Obligations thru The Circular

- Ensure FTA programs, policies and activities do not discriminate on race, color, or national origin
- Addresses requirements of FTA Title VI Circular 4702.1A,
 - AKA "The Circular"
- Submission Recurrence
 - Recipients every 3 years
 - MPOs every 4 yrs



May 13, 2007

Subject: TITLE VI AND TITLE VI-DEPENDENT GUIDELINES FOR FEDERAL TRANSIT ADMINISTRATION RECIPIENTS

1. <u>PURPOSE</u>. The purpose of this circular is to provide recipients and subrecipients of Federal Transit Administration (FTA) financial assistance with guidance and instructions necessary to carry out the U.S. Department of Transportation's ("DOT" or the "Department") Title VI regulations (49 CFR part 21) and to integrate into their programs

Discrimination Prohibitions

Disparate Treatment

- Intentional Discrimination
- Actions that result in circumstances where similarly situated persons are treated different because of their race, color, or national origin.

Disparate Impact

- Unintentional Discrimination
- The recipient's procedure or practice while neutral on its face has the effect of disproportionately excluding or adversely affecting members of the projected class without substantial legitimate justification.





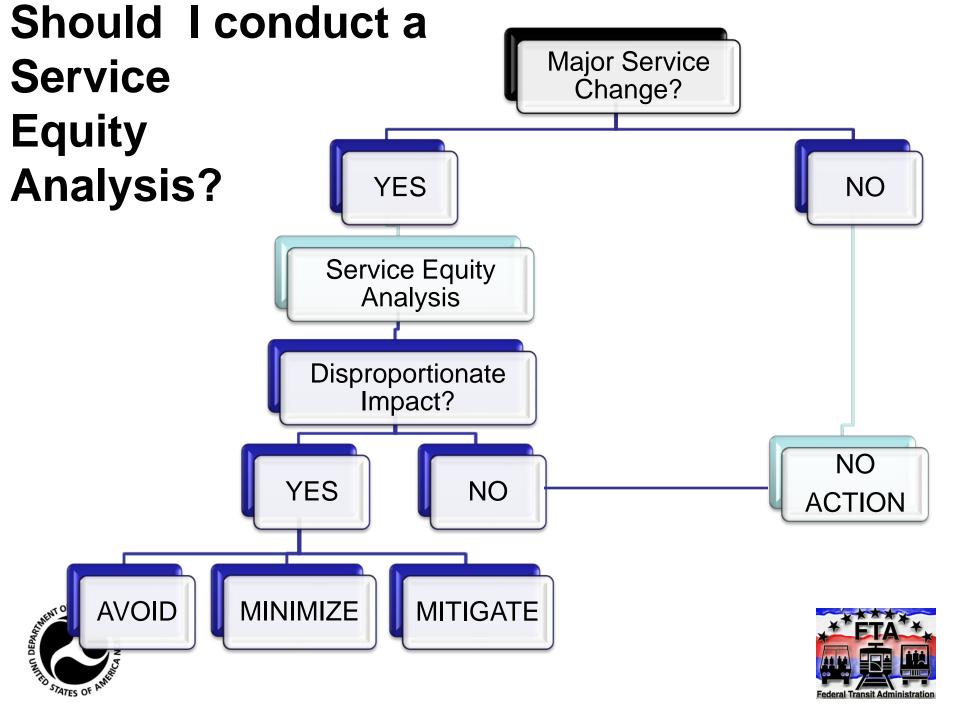
Service & Fare Equity Analysis





Service & Fare Equity Analysis Goals

- Assess the effects of the proposed fare or service changes.
- Assess the alternatives available for people affected by change.
- Determine if proposals would have a disproportionately high and adverse effect on minority and low-income riders.
- Describe the actions proposes to minimize, mitigate, or offset any adverse effects



Service & Fare Change

- When: Conducted at programming stages
- Who: Urbanized area over 200,000 who proposes major service change or fare change

(Note: No threshold for fare changes)

• Why: Required by FTA Circular 4702.1A





Defining a Major Service Change





Establishing a Major Service Change Policy

- Recipient should have established guidelines or threshold for what it considers "major" change to be
- Often defined as a numerical standard
 - e.g. change effects greater than 25% of service hours on any route





Example of a Major Service Change

- Change of 50% of more in revenue-miles on any individual route
 - Example: During a single fiscal year, changes made on a route exceeds 50% of revenue-miles
- Elimination of a route or a portion of a route results in an area having no alternative service within onequarter of a mile
- A new transit route is created
- A fare increase or decrease of any amount is proposed





THE CITY OF USA

"Major Service Change" Policy

Policy 551

"Title VI analysis must occur whenever there is a service adjustment of 25% or more in daily route miles or hours".

- Analysis should:
 - 1)Determine benefits to and potential negative impacts on minority & low-income populations
 - 2)Quantify expected effects
 - Total, positive, and negative (disproportionately high and adverse effects)
 - 3)Determine the appropriate course of action, whether avoidance, minimization, or mitigation,

THE CITY OF USA

"Major Service Change" Resolution

The Board requires a public hearing for any system-wide service changes affecting 5% or more of revenue miles or hours.





Service Change Analysis





Option A: Prescriptive Method

Create Maps

Span of Service, Modes

Assess Alternatives

Travel Time, Cost

Determine if disproportionate impact

Mitigate

Option Brown Create your own method

Evaluate changes during planning

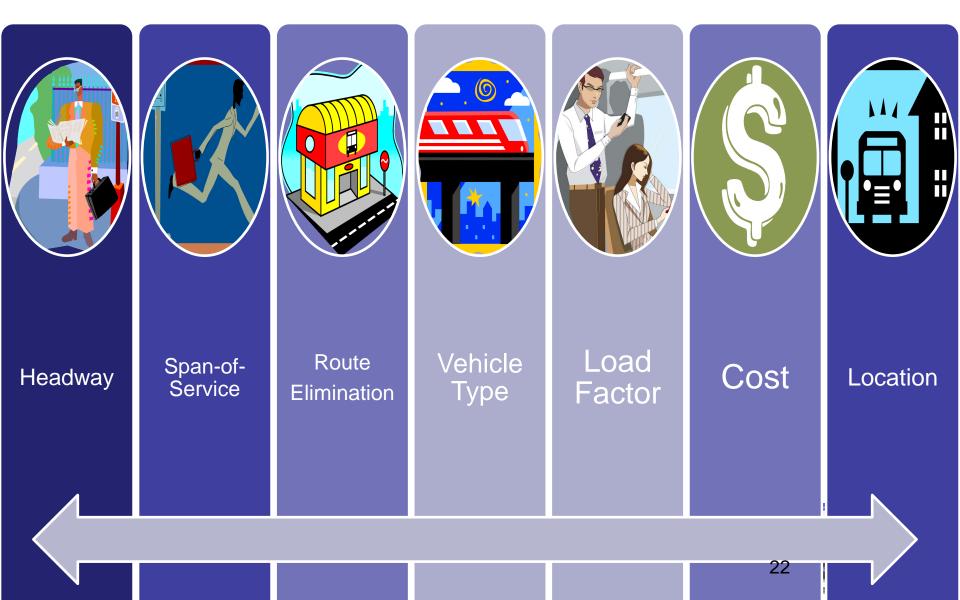
Explain your own methodology

Determine if disproportionate impact

Identify Alternatives & Mitigate

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SERVICE & FARE EQUITY ANAYLSIS Measurable Attributes



What does the circular not say?

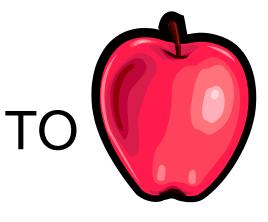
- Type of data needed
 - Have O&D data, US Decennial Census, or Attitude and Awareness Survey data with cross tabulation by ethnicity.
- Human Resources:
 - Planners conduct analysis
 - Market Research conduct analysis
- Measure disparate impact
 - Planning method that measures impact
 - Minority route definition





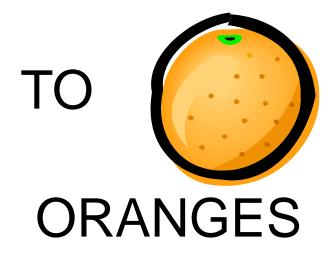
Golden Rule for Preparing Service Equity Analysis





APPLES

ORANGES







SERVICE & FARE EQUITY ANAYLSIS Customary Steps

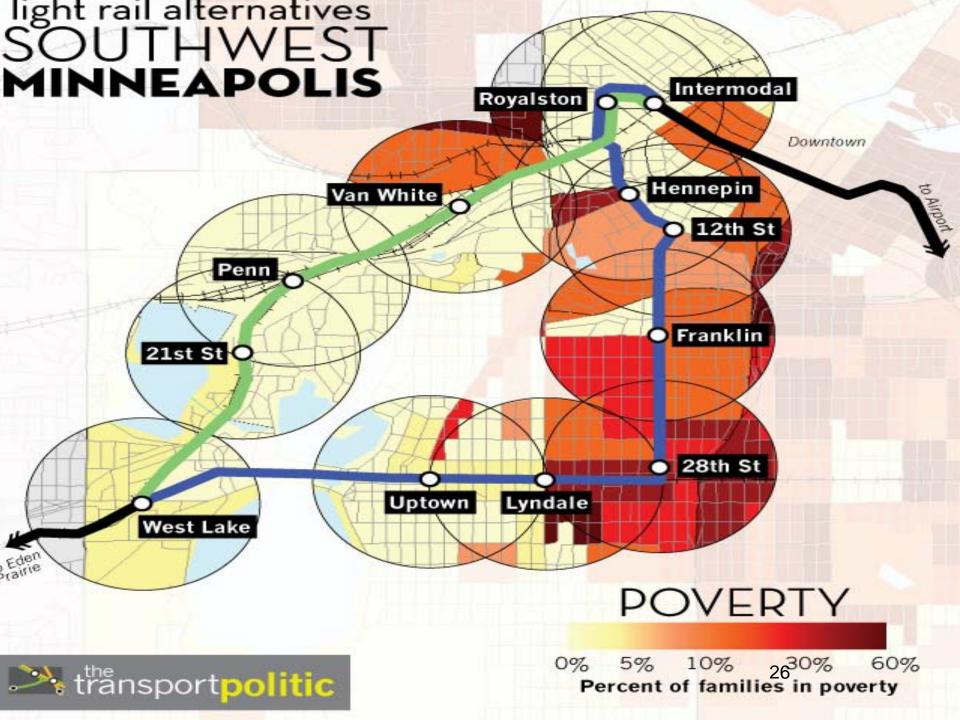
Get Data

Convert Data, e.g. Apples to Apples ID
Minority /
LowIncome

Calculate Average Compare
Benefits
&
Burdens







Case Study #1

Title VI Review - April 2010 Servi

Operating Costs and Ridership Weekdays

BOTH CALLAND OF CONTINUES		New Route Name	Span of Service		
		Brief Overview	Start	End	
61C McK	eesport-Homestead	61C McKeesport-Homestead			
Existi	ng	Headway changes, variants reduced	3:53	25:5	
Propo	osed: Existing 61C Riders		4:00	25:0	
Propo	osed: Shift from 61F		4:00	25:0	
Propo	osed: Total		4:00	25:0	
61D Sum	merset	61D Murray Ave			
Existi	ng	Removed from Summerset, extended to	6:17	22:1	
Propo	osed	Waterfront.	5:00	26:00	
61F Hom	estead Park			To de la	
Existi	ng	Service eliminated, see 61D & 55M	7:23	17:4	
Propo	osed				
64A East	Liberty Homestead	64 Lawrenceville-Homestead			
Existi	ng	Route extended to Childrens Hospital	5:24	24:3	
Propo	osed		5:30	24:30	
69A Fort	es				
Existi	ng	Service eliminated , see 61A 27	8:24	21:56	
Propo	osed				

Case Study continued

Non Minority Routes		
	Average Weekday Headway	SAT SUN
1 Freeport Road	0.63	1.00 1.00
5 Natrona	1.33	2.00
14 Ohio Valley	0.50	1.00 1.25
21 Coraopolis	0.67	1.00 2.00
20 Kennedy	0.68	C J J
24 West Park	0.63	1.00 1.00
22 McCoy	0.75	1.00
32 Campbells Run	0.75	
28X Airport Flyer	0.50	0.50 0.50
G1 West Busway	0.30	0.50 1.00
61D Murray Ave	0.38	0.50 0.75
75 Ellsworth	0.40	0.58 0.58
G2 West Busway-Oakland	0.38	1.00 1.00
P10 Allegheny Valley Flyer	0.33	(11
P11 Middle Road	0.67	ff,
Red Line	0.27	0.30 0.38
Blue Line via Library	0.35	0.70 0.70
Blue - South Hills Village	0.35	0.35 0.70

	0.55	0.80	0.87
Minutes	33	48	52
Hours	0	0	0

Minority Routes

·	Average Weekday Headway	SAT	SUN
16 Brighton	0.32	0.50	0.50
18 Manchester	0.32	1.00	1. <u>0</u> 0
P7 McKeesport Flyer	0.75		10
59 Mon Valley	0.63	1.00	1.00
60 Walnut-Crawford Village	1.00	10	
61 White Oak	1.00	- 7	f,
62 Liberty - North Versailles	1.00	1.00	1
61A East Pgh-Wilkinsburg	0.38	0.50	0.75
61B Braddock-Swissvale	0.38	0.50	0.75
61C McKeesport-Homestead	0.38	0.50	0.75
64 Lawrenceville-Homestead	0.50	0.50	1.00
19L Emsworth Limited	0.25	"	Λ,
Brown Line	0.75	1,	

	0.59	0.68	0.78
Minutes	35	41	47
Hours	0	0	0

Case Study continued

Minority Routes Eliminate	d	
55D West Run-Brierly Lane	1.22	13.74
58P Port Vue-Liberty	1.13	12.18
58V Versailles Express	0.82	11.78
59U South Side Works-		
Oakland	0.60	15.52
77C Shadyside	2.00	9.53
78C Shadyside Express	1.38	9.53
T Trafford Flyer	2.75	10.70





Case Study # 2

Impact of Potential 2008 Service Adjustments on Minority and Low Income Passengers Weekly Numbers

Bus/Rail Lines	Wkly Ons	Under20k	Minority	%<20k	% Min	Impacted Ons	Under20k	Minority
1	50,340	25,081	21,602	50%	43%	1,453	724	624
2	56,929	20,727	10,639	36%	19%	4,623	1,683	864
3	39,479	15,902	7,414	40%	19%	2,396	965	450
4	18,396	7,309	4,509	40%	25%	688	273	169
	52,845	21,450	13,172	41%	25%	1,572	638	392
	952	446	248	47%	26%	237	111	62
	4,562	679	2,012	15%	44%	659	98	291
	1,781	455	414	26%	23%	280	71	65
	13,596	4,177	4,093	31%	30%	1,161	357	349
	6,294	3,264	3,079	52%	49%	0	0	0
	19,346	7,186	4,965	37%	26%	1,014	377	260
	65,337	33,005	22,653	51%	35%	998	402	187
	19,406	7,565	3,864	39%	20%	378	150	93
	21,728	7,379	4,359	34%	20%	931	378	232
Adj Lines	370,990	154,623	103,022	42%	28%	16,390	6,228	4,037
Bus/Rail Lines	Wkly Ons	Under20k	Minority	%<20k	% Min			
Freq Lines	598,763	262,001	178,979	44%	30%		38%	25%
All Bus Lines	1,266,568	527,728	381,169	42%	30%			

163,547

179,793

29%

26%

Rail Lines

618,897

^{*} Weekly Ridership from LATEST O&D Data

^{* %} Minority & Under 20 k from LATEST O&D Survey

Fare Changes





A FARE ANALSIS is required for ALL CHANGES, Regardless if there is a major service change or NOT!





Perform a Fare Analysis

- Assess effects of proposed fare change
- Examine ALL fare increase or decrease
- Analyze if minority & low-income riders are more likely to use the:
 - mode of service,
 - payment type, or
 - payment media
 - subject to the fare increase





Disproportionate fare increases okay if no feasible alternative

"Recipients can implement a fare increase or major service reduction that would have disproportionately high and adverse effects provided that the recipient demonstrates that the action meets a substantial need that is in the public interest and that alternatives would have more severe adverse effects than the preferred alternative."*



Can a fare equity analysis be performed on this data?

Current Fares	One-zone	Two-zone	Three-zone
Adult	\$1.50	\$2.50	\$3.00
Youth	\$1.00	\$1.75	\$2.50
Senior/Disabled	\$ 0.50	\$1.25	\$1.50

June, 2011	In-county	Intercounty
Adult	\$2.50	\$3.50
Youth	\$1.25 (bus & Link)	\$2.50
Senior/Disabled	\$0.75 (bus & Link)	\$1.50

No, because we need minority & low-income populations identified



2008 Customer Satisfaction Survey (Systemwide)

Weekday

Ethnicity by Fare Type

Weighted by originating rides

Fare Increase

Count		Ethnicity
Fare type	Non-minority	Minority
FR Cash	149,131	302,021
FR Day Metro Pass	158,451	290,456
Express Bus Cash	5,198	1,047
Express Bus Day Pass	2,166	1,047
Rail Cash 1-Zone		
Rail Cash 2-Zone		
Rail 1-Zone Day Pass		
Rail 2-Zone Day Pass		
Cash Single Ride Student		
Seniors	28,395	17,681
Disability Fare card	9,321	29,280
Active Duty/Military		
Disability Fare Card (ADA		
certified)	9,321	9,321
Dillo		
STS		
Adult 31 31-Day R Pass	335,544	511,225
Student 31-Day R Pass	130,489	192,661
Adult 7-Day R Pass		

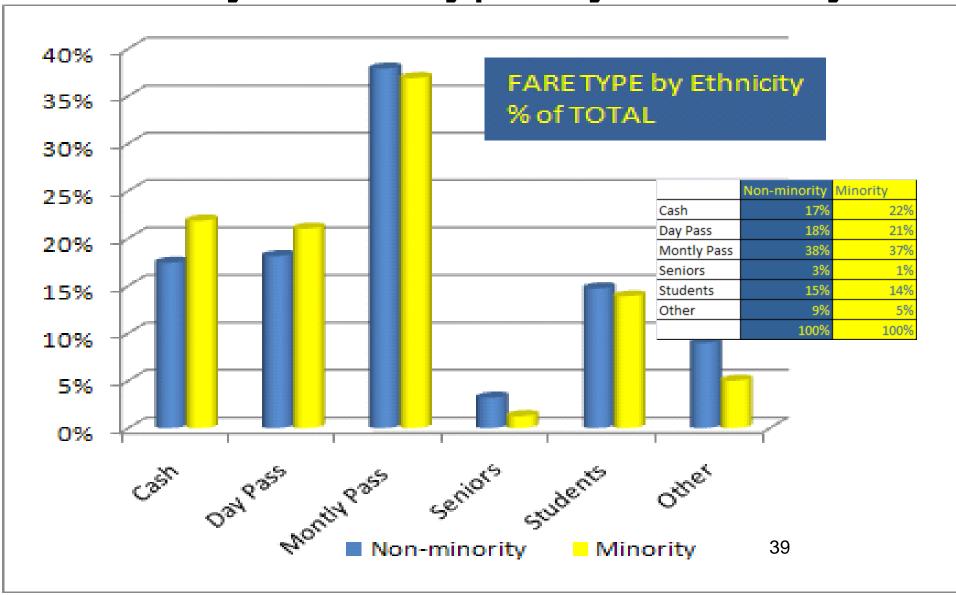
Example Fare Data Is there a disparate impact?

Fare Type	NonMin	Minority	Cost/Ride
Cash 1-ride	149,131	302,021	\$1.00
Day Pass	158,451	290,456	\$1.25
Monthly Pass	511,225	355,544	\$0.75
TOTAL	686,930	1,122,250	





Recommendation: Identify Fare Type by Ethnicity



Compare & Mitigate Proposed Fare Changes

- Analysis should compare the fares paid under the change with fares that would be paid through available alternatives
- Describe actions to avoid, minimize, or mitigate any adverse effects of proposed fare changes on minority and low-income populations





Remember to MITIGATE!

- ✓ Determine if any proposals would have a disproportionately high and adverse effect
- Describe actions to mitigate

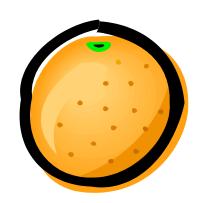






Service & Fare Equity Analysis Summary Points

- Evaluate changes during planning
- ☐ Determine if discriminatory impact
- ☐ Compare "apples-to-apples"
- Explain methodology
- □ Use graphics
- Describe actions to mitigate











Thank you!!问题

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Questions

질문



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ВОПРОСЫ

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